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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/034,860	12/27/2001	Chun-Jen Chen	JCLA7620	1441

7590

08/25/2005

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EXAMINER

GIBBS, HEATHER D

ART UNIT

PAPER NUMBER

2622

DATE MAILED: 08/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/034,860	Applicant(s) CHEN ET AL.	
	Examiner Heather D. Gibbs	Art Unit 2622	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 December 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8, 10-12 and 14 is/are rejected.
- 7) ☒ Claim(s) 1, 5, 9, 10 and 13 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.


Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 December 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☒ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.


TWYLER LAMB
PRIMARY EXAMINER

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

1. Claims 1,5,10 are objected to because of the following informalities: change “an R charge” to –a R charge-- Line 5 Page 11, Line 18 Page 12, Line 13 Page 14; change “an R analog” to – a R analog—Line 6 Page 11, Line 19 Page 12, Line 14 Page 14; insert “analog” to read – a B analog signal—Line 6 Page 11. Appropriate correction is required.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-8,10-12,14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted Prior Art (APA) in view of Cheng (US 6.052,147).

For claim 1, which is representative of claims 5, and 10, APA discloses a circuit of a scanner to perform a color space conversion for a RGB signal, comprising: a plurality of sampling-amplified-offset devices, to sample, amplify, and compensate levels of a R charge signal, a G charge signal, and a B charge signal, respectively, to obtain a R analog signal, a G analog signal, and B analog signal; a multiplexer to select the R analog signal, the G analog signal, and the B analog signal or the addition analog signal as output (Fig 1).

APA does not disclose expressly an adder, to perform an addition calculation on the R analog signal, the G analog signal, and the B analog signal to obtain an addition analog signal.

Cheng discloses an adder, to perform an addition calculation on the R analog signal, the G analog signal, and the B analog signal to obtain an addition analog signal (Col 5 Lines 28-37).

APA & Cheng are combinable because they are from the same field of endeavor.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine Cheng with APA.

The suggestion/motivation for doing so would have been to reduce the common-mode voltage of the image signal, as taught by Cheng.

Therefore, it would have been obvious to combine APA with Cheng to obtain the invention as specified in claims.

Regarding claim 2, which is representative of claims 6,11, Cheng discloses The circuit according to claim 1, wherein each of the sampling-amplified- offset devices further comprises: a correlation double sampler 121, to perform sampling two times on the R, G or B charge signal, and to perform a subtraction operation on results of the two samplings to obtain a luminance', a programmable gain amplifier 115, to adjust a gain value to amplify the luminance, and to obtain an amplified luminance according to the gain value; and an offset device, to compensate level of the amplified luminance to obtain the R, G or B analog signal of the R, G or B charge signals, respectively (Fig 1).

Considering claim 3, which is representative of claims 7, 12, Cheng discloses wherein each of the sampling-amplified-offset devices further comprises: a correlation double sampler 121, to perform sampling two times on the R, G, or B charge signal, and to perform a subtraction operation on the two samplings to obtain a luminance; an offset device to compensate a level of the luminance to obtain a compensated luminance; and a programmable gain amplifier 115, to adjust a gain value to amplify the compensated luminance and to obtain the R,G and B analog signal of the R, G, and B charge signals (Fig 1).

For claim 4, which is representative of claims 9, 14, APA teaches wherein the multiplexer selects the R analog signal, the G analog signal, the B analog signal or the addition analog signal and outputs the selected analog signal to an analog-digital converter, so that the selected analog signal is converted into a digital signal (Fig 1).

Allowable Subject Matter

4. Claims 9,13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

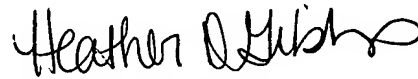
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heather D. Gibbs whose telephone number is 571-272-7404. The examiner can normally be reached on M-Thu 8AM-7PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L. Coles can be reached on 571-272-7402. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Heather D Gibbs
Examiner
Art Unit 2622

hdg



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PRIMARY EXAMINER